**13/3,K/3    (Item 2 from file: 2)**
DIALOG(R)File  2:INSPEC
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09246622   INSPEC Abstract Number: C2005-02-7850-014
  **Title: Computer graphics access for blind people through a haptic and**
**audio virtual environment**
  Author(s): Iglesias, R.; Casado, S.; Gutierrez, T.; **Barbero, J.I. ;**
Avizzano, C.A.; Marcheschi, S.; Bergamasco, M.
  Author Affiliation: Fudacion Labein, Derio, Spain
  Conference Title: Proceedings. The 3rd IEEE International Workshop on
Haptic, Audio and Visual Environments and Their Applications - HAVE 2004
(IEEE Cat. No.04EX972)   p.13-18
  Publisher: IEEE, Piscataway, NJ, USA
  Publication Date: 2004  Country of Publication: USA   x+200 pp.
  ISBN: 0 7803 8817 8     Material Identity Number: XX-2004-02640
  U.S. Copyright Clearance Center Code: 0 7803 8817 8/2004/$20.00
  Conference Title: Proceedings. The 3rd IEEE International Workshop on
Haptic, Audio and Visual Environments and Their Applications - HAVE 2004
  Conference Date: 2-3 Oct. 2004   Conference Location: Ottawa, Ont.,
Canada
  Language: English
  Subfile: C
  Copyright 2005, IEE
  Author(s): Iglesias, R.; Casado, S.; Gutierrez, T.; **Barbero, J.I. ;**
Avizzano, C.A.; Marcheschi, S.; Bergamasco, M.
  ...Abstract: design and development of audio-haptic applications in
different fields (architecture, art, aeronautics, medicine,..). In **order**
to demonstrate the validity of the approach, the project was specifically
focused on the development...


**13/3,K/14    (Item 1 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
(c) 2008 WIPO/Thomson. All rts. reserv.

01110987   **Image available***
SYSTEM AND METHOD FOR SELECTING , ORDERING **AND**
**ACCESSING** COPYRIGHTED
    **INFORMATION FROM PHYSICAL** DOCUMENTS
SYSTEME ET PROCEDE DE SELECTION , DE COMMANDE ET D'ACCES A
UNE INFORMATION
    PROTEGEE PAR LES DROITS D'AUTEUR A PARTIR DE DOCUMENTS
PHYSIQUES
Patent Applicant/Assignee:

INTERNATIONAL BUSINESS MACHINES CORPORATION, New Orchard Road, Armond, NY
  10504, US, US (Residence), US (Nationality), (For all designated states except: US)
IBM FRANCE, Tour Descartes, La Defense, 5, 2, avenue Gambetta, F-92400
  Courbevoie, FR, FR (Residence), FR (Nationality), (Designated only for: MC)
Patent Applicant/Inventor:
  INCERTIS CARRO Fernando , c/612 - N(deg) 9, Monte-Canada, Paterna,
  E-46182 Valencia, ES, ES (Residence), ES (Nationality), (Designated only for: US)
  VARONA BARBERO Jose Maria , Avda. Burgos, 28, 5(deg)A, E-28036 Madrid,
  ES, ES (Residence), ES (Nationality), (Designated only for: US)
Legal Representative:
  ETORRE Yves Nicolas (agent), Compagnie IBM France, Direction de la
  Propriete Intellectuelle, F-06610 La Gaude, FR,

SYSTEM AND METHOD FOR SELECTING, ORDERING AND
ACCESSING COPYRIGHTED
  INFORMATION FROM PHYSICAL DOCUMENTS
SYSTEME ET PROCEDE DE SELECTION, DE COMMANDE ET D'ACCES A
UNE INFORMATION
  PROTEGEE PAR LES DROITS D'AUTEUR A PARTIR DE DOCUMENTS
PHYSIQUES

Patent Applicant/Inventor:
  **INCERTIS CARRO Fernando ...**

...Designated only for: US)
  **VARONA BARBERO Jose Maria ...**
Legal Representative:
Main International Patent Class (v7):  **G06F-017/30**
Fulltext Availability:
  Detailed Description
  Claims

English Abstract
  The present invention discloses a system, method and computer program for
  **selecting** ,  **ordering** , accessing and displaying  **copyrighted**
  information from physical  **documents**  such as printed publications or
  **commercials** . The invention allows the management and the direct sale
  from the editor to the final consumer of electronic information
  referenced on physical publications while respecting the  **copyrights**
  attached to this electronic information. According to the present
  invention, a plurality of particular items (i.e., words, pictures,  **logos**
  , etc.,) are defined on a physical  **document** . These items are linked to
  **copyrighted**  hardcopy or softcopy edited objets, such as  **chapters** ,
  notes, pictures, video or audio elements. For identifying and  **selecting**
  the items defined in the physical  **document** , these items are
  automatically illuminated by luminous signals (or light spots) generated
  by an opto...
...opto-touch foil operates under the control of a user workstation. An
  illuminated item is  **selected**  by the user by pressing the opto-touch
  foil over the illuminated position of this item. When the user  **selects**
  a particular item among all illuminated items, the user workstation
  receives from the opto-touch foil a signal indicating the position of
  this  **selected**  item. The user workstation identifies and locates the
  edited object associated with the position of the  **selected**  item
  referring to an Edited Objects Table. If the user has already a license for...

**< removed unnecessary information>**


~ ~ **Bibliographic patent files**

KAMAL (instant inventors)
 **13/3,K/1    (Item 1 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
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0014179708  - Drawing available
WPI ACC NO: 2004-364977/200434

**Selection, ordering and access method for edited objects from e.g. printed**
book **, involves identifying items corresponding to determined position of**
physical document **by referring to edited object table**

Patent Assignee: CIE IBM FRANCE (IBMC); IBM CORP (IBMC); INT BUSINESS
  MACHINES CORP (IBMC); BARBERO J M V (BARB-I); CARRO F I (CARR-I)
Inventor: BARBERO J M V; CARRO F I; INCERTIS C F; INCERTIS CARRO F; VARONA
  B J M; VARONA BARBERO J M

**Patent Family** (10 patents, 105 countries)

| Patent Number | Kind | Date | Application Number | Kind | Date | Update |
|---|---|---|---|---|---|---|
| WO 2004034280 | A1 | 20040422 | WO 2003EP9309 | A | 20030723 | 200434 B |
| AU 2003266303 | A1 | 20040504 | AU 2003266303 | A | 20030723 | 200465 E |
| EP 1550057 | A1 | 20050706 | EP 2003807799 | A | 20030723 | 200544 E |
| | | | WO 2003EP9309 | A | 20030723 | |
| JP 2006508425 | W | 20060309 | JP 2004542316 | A | 20030723 | 200620 E |
| | | | WO 2003EP9309 | A | 20030723 | |
| TW 200416578 | A | 20040901 | TW 2003128103 | A | 20031009 | 200624 E |
| CN 1708756 | A | 20051214 | CN 2003825505 | A | 20030723 | 200636 E |
| KR 2005111570 | A | 20051125 | KR 2005704112 | A | 20050310 | 200650 E |
| | | | WO 2003EP9309 | A | 20030723 | |
| US 20060167754 | A1 | 20060727 | US 2005530535 | A | 20050406 | 200650 E |
| | | | WO 2003EP9309 | A | 20030723 | |
| TW 241508 | B1 | 20051011 | TW 2003128103 | A | 20031009 | 200679 E |
| KR 804519 | B1 | 20080220 | WO 2003EP9309 | A | 20030723 | 200861 E |
| | | | KR 2005704112 | A | 20050310 | |

Priority Applications (no., kind, date): EP 2002368109 A 20021010

**Patent Details**

| Number | Kind | Lan | Pg | Dwg | Filing Notes |
|---|---|---|---|---|---|
| WO 2004034280 | A1 | EN | 48 | 16 | |

National Designated States,Original:  AE AG AL AM AT AU AZ BA BB BG BR BY
  BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID
  IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ
  NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA
  UG US UZ VC VN YU ZA ZM ZW
Regional Designated States,Original:  AT BE BG CH CY CZ DE DK EA EE ES FI

FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ
TR TZ UG ZM ZW

AU 2003266303    A1  EN          Based on OPI patent   WO 2004034280
EP 1550057      A1  EN          PCT Application  WO 2003EP9309
                    Based on OPI patent   WO 2004034280
Regional Designated States,Original:  AL AT BE BG CH CY CZ DE DK EE ES FI
FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR
JP 2006508425   W   JA   24     PCT Application  WO 2003EP9309
                    Based on OPI patent   WO 2004034280
TW 200416578    A   ZH
KR 2005111570   A   KO          PCT Application  WO 2003EP9309
                    Based on OPI patent   WO 2004034280
US 20060167754  A1  EN          PCT Application  WO 2003EP9309
TW 241508       B1  ZH
KR 804519       B1  KO          PCT Application  WO 2003EP9309
                    Previously issued patent  KR 2005111570

                    Based on OPI patent   WO 2004034280


**Selection, ordering and access method for edited objects from e.g. printed**
book **, involves identifying items corresponding to determined position of**
physical  document **by referring to edited object table**


**Original Titles:**
SYSTEM AND METHOD FOR SELECTING, ORDERING AND ACCESSING COPYRIGHTED
INFORMATION FROM **PHYSICAL  DOCUMENTS...**

...SYSTEM AND METHOD FOR SELECTING, ORDERING AND ACCESSING COPYRIGHTED
INFORMATION FROM **PHYSICAL  DOCUMENTS...**

...SYSTEM AND METHOD FOR SELECTING, ORDERING AND ACCESSING COPYRIGHTED
INFORMATION FROM **PHYSICAL  DOCUMENTS...**

...System and method for selecting, ordering and accessing copyrighted
information from **physical  documents...**

...SYSTEM AND METHOD FOR SELECTING, ORDERING AND ACCESSING COPYRIGHTED
INFORMATION FROM **PHYSICAL  DOCUMENTS**


**Alerting Abstract** ...NOVELTY - A position of a point selected on light emitting foil aligned in portion of **physical  document** , is determined.

The items e.g. words/pictures corresponding to determined position, are identified by...
...user system; system for selecting, ordering and accessing edited objects from **physical document** ; computer program...

...USE - For selecting, ordering and accessing edited objects from **physical document** e.g. digital objects, multimedia objects and printed publication or **commercials** such as newspaper, geographic map, novel **book**
, text **book** , technical **book** or **commercial catalog** comprising items such as words, phrases, logos or pictures. Also applicable for compact disk (CD...

...ADVANTAGE - Allows integration of **physical document** in digitally coded information, and vice versa. Performs management and sale of digital document directly...

**Title Terms...**/Index Terms/Additional Words:  **BOOK ;**

**Original Publication Data by Authority**

**Argentina**

Assignee name & address:
**Original Abstracts:**
...a system, method and computer program for selecting, ordering, accessing and displaying copyrighted information from **physical documents** such as
printed publications or **commercials** . The invention allows the management
and the direct sale from the editor to the final...

...a plurality of particular items (i.e., words, pictures, logos, etc.,) are defined on a **physical document** . These items are linked to copyrighted hardcopy or softcopy edited objets, such as chapters, notes, pictures, video or audio elements. For identifying and selecting the items defined in the **physical document** , these items are automatically illuminated by luminous signals (or light spots) generated by an **opto - touch** foil. The **opto - touch** foil operates under the control of a user workstation. An illuminated item is selected by the user by pressing the **opto - touch** foil over the illuminated position of this item. When the user selects a particular item among all illuminated items, the user workstation receives from the **opto - touch** foil a signal indicating the position of this selected item. The user workstation identifies and...

**< removed unnecessary information>**

0013745802  - Drawing available
WPI ACC NO: 2003-844305/200378
XRPX Acc No: N2003-674774
**Internet-based hyperlink creating method for interactive hypermedia system,
involves identifying and locating electronic document associated with selected hyperlink item, on user workstation**
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: INCERTIS F C
**Patent Family** (2 patents, 1 countries)

| Patent | | | Application | | | |
|---|---|---|---|---|---|---|
| Number | Kind | Date | Number | Kind | Date | Update |
| US 20030191852 | A1 | 20031009 | US 2002295683 | A | 20021115 | 200378 B |
| US 7181502 | B2 | 20070220 | US 2002295683 | A | 20021115 | 200716 E |

Priority Applications (no., kind, date): EP 2002368026 A 20020321; US
 2002295683 A 20021115

**Patent Details**

| Number | Kind | Lan | Pg | Dwg | Filing Notes |
|---|---|---|---|---|---|
| US 20030191852 | A1 | EN | 27 | 12 | |

**Original Titles:**
System and method for locating on electronic documents items referenced in
a **physical  document**...

...System and method for locating on electronic documents items referenced
in a **physical  document**

  **Alerting Abstract** ...NOVELTY - The method involves creating an hyperlink
table for a **physical  document** (101). A hyperlink item is selected by
pressing an **opto - touch** foil (100), and aligned with selected page of
the **physical  document** , so as to determine corresponding hyperlinked
points. An electronic document associated with selected hyperlinked item...
...buildings, water springs, historic monuments and factories on electronic
documents such as travel guide, newspaper, **books** , **commercial
catalog** ,
technical **book** and other type of hard-copy, engraved, written or printed
surfaces e.g. paintings, in...

**Original Publication Data by Authority**

**Argentina**

Assignee name & address:

**Original Abstracts:**

The present invention generally relates to interactive hypermedia systems for locating electronic documents referenced on **physical documents**. More particularly, the present invention discloses a method and system for creating hyperlinks from one or more items, e.g. words, pictures, foot notes, symbols, icons, on a **physical document** to electronic documents and for activating the hyperlink in response to touching the selected item on the **physical document**. Also disclosed is a method and system for accessing, retrieving and displaying the hyperlinked electronic...

...The present invention generally relates to interactive hypermedia systems for locating electronic documents referenced on **physical documents**. More particularly, the present invention discloses a method and system for creating hyperlinks from one or more items, e.g. words, pictures, foot notes, symbols, icons, on a **physical document** to electronic documents and for activating the hyperlink in response to touching the selected item on the **physical document**. Also disclosed is a method and system for accessing, retrieving and displaying the hyperlinked electronic...

**Claims:**

...is claimed is:<b>1</b>. A method of creating hyperlinks from hyperlinked items referenced in a **physical document** to an electronic document, the method comprising:(a) creating a hyperlink table for the **physical document**, the **physical document** having at least one page;(b) for each page of the **physical document**, storing in the hyperlink table means for identifying a page and means for identifying at...

...hyperlinked item defined on the page;(c) determining the position of points pressed on an **opto - touch** foil aligned with the page of the **physical document**; the points corresponding to the positions of the hyperlinked items;(d) storing in the hyperlink...

...is claimed is:1. A method of creating hyperlinks from hyperlinked items referenced in a **physical document** to an electronic document, the method comprising: (a) creating a hyperlink table for the **physical document**, the **physical document** having at least one page;(b) for each page of the **physical document**, storing in the hyperlink table means for identifying a page and means for identifying at...

...hyperlinked item defined on the page;(c) determining the position of points pressed on an **opto - touch** foil aligned with the page of the **physical document**; the points corresponding to the positions of the hyperlinked items;(d) storing in the hyperlink...

DIALOG(R)File 350:Derwent WPIX
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0013343258 - Drawing available
WPI ACC NO: 2003-430978/200340
XRPX Acc No: N2003-344053
**Method for selecting electronic information from** physical document **and**
**displaying such information over such document by identifying document**
**hyperlink table with location of electronic document, associated with page**
**for receiving**
Patent Assignee: CARRO F I  (CARR-I); CIE IBM FRANCE (IBMC); IBM CORP
 (IBMC); INT BUSINESS MACHINES CORP (IBMC)
Inventor: CARRO F I; INCERTIS C F; INCERTIS CARRO F; INCERTIS CARRO F
**Patent Family** (10 patents,  99 countries)

| Patent Number | Kind | Date | Application Number | Kind | Date | Update |
|---|---|---|---|---|---|---|
| WO 2003042862 | A2 | 20030522 | WO 2002EP11126 | A | 20020912 | 200340 B |
| EP 1444608 | A2 | 20040811 | EP 2002779460 | A | 20020912 | 200452 E |
|  |  |  | WO 2002EP11126 | A | 20020912 |  |
| AU 2002342797 | A1 | 20030526 | AU 2002342797 | A | 20020912 | 200464 E |
| KR 2004058169 | A | 20040703 | KR 2004701556 | A | 20040131 | 200472 E |
| US 20050028092 | A1 | 20050203 | WO 2002EP11126 | A | 20020912 | 200511 E |
|  |  |  | US 2004495236 | A | 20041004 |  |
| CN 1549983 | A | 20041124 | CN 2002816824 | A | 20020912 | 200516 E |
| JP 2005509948 | W | 20050414 | WO 2002EP11126 | A | 20020912 | 200527 E |
|  |  |  | JP 2003544626 | A | 20020912 |  |
| AU 2002342797 | A8 | 20051027 | AU 2002342797 | A | 20020912 | 200624 E |
| KR 556331 | B1 | 20060303 | WO 2002EP11126 | A | 20020912 | 200724 E |
|  |  |  | KR 2004701556 | A | 20040131 |  |
| JP 4081008 | B2 | 20080423 | WO 2002EP11126 | A | 20020912 | 200830 E |
|  |  |  | JP 2003544626 | A | 20020912 |  |


Priority Applications (no., kind, date): EP 2001480109  A  20011113


**Patent Details**

| Number | Kind | Lan | Pg | Dwg | Filing Notes |
|---|---|---|---|---|---|
| WO 2003042862 | A2 | EN | 47 | 13 |  |

National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BY
  BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM

HR HU ID
   IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ
   NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ
   VN YU ZA ZM ZW
Regional Designated States, Original:   AT BE BG CH CY CZ DE DK EA EE ES FI
   FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG
   ZM ZW
EP 1444608      A2  EN          PCT Application  WO 2002EP11126
                        Based on OPI patent   WO 2003042862
Regional Designated States, Original:   AL AT BE BG CH CY CZ DE DK EE ES FI
   FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR
AU 2002342797    A1  EN          Based on OPI patent   WO 2003042862
US 20050028092   A1  EN          PCT Application  WO 2002EP11126
JP 2005509948    W   JA   30     PCT Application  WO 2002EP11126
                        Based on OPI patent   WO 2003042862
AU 2002342797    A8  EN          Based on OPI patent   WO 2003042862
KR 556331        B1  KO          PCT Application  WO 2002EP11126
                        Previously issued patent   KR 2004058169

                        Based on OPI patent   WO 2003042862
JP 4081008       B2  JA   27     PCT Application  WO 2002EP11126
                        Previously issued patent   JP 2005509948

                        Based on OPI patent   WO 2003042862


**Method for selecting electronic information from** physical  document **and**
**displaying such information over such document by identifying document**
**hyperlink table with location of...**


**Original Titles:**
...SYSTEM AND METHOD FOR SELECTING ELECTRONIC DOCUMENTS FROM A **PHYSICAL**
**DOCUMENT**  AND FOR DISPLAYING SAID ELECTRONIC DOCUMENTS OVER SAID  **PHYSICAL**
 **DOCUMENT**...


...The system and method of displaying the said electronic document in piles on the said  **physical   document** , while selecting an electronic document from a  **physical   document**...


...System and method for selecting electronic documents from a  **physical document**  and for displaying said electronic documents over said  **physical  document**...

**Alerting Abstract** ...NOVELTY - A page of a **physical document** (101) is
identified and page referring to a document hyperlink table is identified,
such table may include the **physical document** , the identification and
location of an electronic document, associated with the page, which may be
received. The retrieved electronic document may be displayed using an **opto
- touch** foil (102) placed over the identified page....USE - For using
**physical documents** as interfaces for navigating on a network and
browsing hypertext documents that may contain hyperlinks...

...ADVANTAGE - Complements the information content of **physical
documents**
by electronic means. Selects and access electronic documents directly from
**physical documents** and to display the accessed electronic documents
over the same **physical documents** for navigating in a network and
browsing hypertext documents...

...101 **physical document**
...102 **opto - touch** foil

**Original Publication Data by Authority**

**Argentina**

Assignee name & address:
**Original Abstracts:**
...servers connected to a communication network, and for displaying the
retrieved hypertext documents over said **physical document** . The
information is accessed by the user simply by touching with a finger items
(i...

...letters, symbols, pictures, icons,...) that are highlighted on an
electronic hypertext document displayed over the **physical** document . The
method, for use in a user system comprises the steps of: - identifying a
**physical document** , this **physical document** comprising one or a
plurality of pages; - identifying a page of said **physical document** ; -
identifying and locating an electronic document associated with the
identified page referring to a document hyperlink table; said document
hyperlink table comprising for each page of the **physical document** the
identification and location of an electronic document; - accessing and
retrieving the electronic document associated with the identified page; -
displaying the retrieved electronic document by means of an **opto - touch**
foil placed over the identified page...

...a computer interface and electronic information.More specifically, this
invention navigates a network for a **physical document** ,It is related
with the system and method of using it as an interface for...

...letters, symbols, pictures, icons,. .. ) that are highlighted on an electronic hypertext document displayed over the **physical document** . The
method, for use in a user system comprises the steps of:--identifying a **physical document** , this **physical document** comprising one or a plurality of pages;--identifying a page of said **physical document** ;--identifying and locating an electronic document associated with the identified page referring to a document hyperlink table; said document hyperlink table comprising for each page of the **physical document** the identification and location of an electronic document;--accessing and retrieving the electronic document associated with the identified page;--displaying the retrieved electronic document by means of an **opto - touch** foil placed over the identified page...

...letters, symbols, pictures, icons,...) that are highlighted on an electronic hypertext document displayed over the **physical document** . The
method, for use in a user system comprises the steps of: - identifying a **physical document** , this **physical document** comprising one or a plurality of pages; - identifying a page of said **physical document** ; - identifying and locating an electronic document associated with the identified page referring to a document hyperlink table; said document hyperlink table comprising for each page of the **physical document** the identification and location of an electronic document; - accessing and retrieving the electronic document associated with the identified page; - displaying the retrieved electronic document by means of an **opto - touch** foil placed over the identified page...
**Claims:**
Electronic information is selected from the **physical document** (101) used by the user system (103) connected to the communication network (104)
containing 1...

...It is a method to display the said selected electronic information in piles on this **physical document** ,Comprising:The step (401) from which the said user system identifies **physical document** (501, 601, 801),The step (402) from which the said user system identifies page (602,802) of the said **physical document** ,Refer to the document hyperlink table| surface which includes the identification information and the position of an electronic document for every page of the said **physical document** for the said user system,The electronic document relevant to the identified said page is...

...1</b> . A method of selecting electronic information from a **physical document** , and for displaying said selected electronic information over this **physical document** , said method comprising:identifying a **physical document** ;identifying a page of said **physical document** ;identifying

and
locating an electronic document associated with the identified page by
referring to a document hyperlink table; said document hyperlink table
comprising for each page of the **physical document** the identification
and location of an electronic document; accessing and retrieving the
electronic document associated with the identified page; anddisplaying the
retrieved electronic document by means of an **opto - touch** foil placed
over the identified page.


KAMAL (instant inventor)
 **13/ 3,K/ 4     (Item 4 from file: 350)**
DIALOG(R)File 350: Derwent WPIX
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0012899450  - Drawing available
WPI ACC NO: 2002-759044/200282
XRPX Acc No: N2002-597607
**Hyperlink creation for interactive hypermedia system, involves
storing
absolute coordinates of access point of page associated with
hyperlinked
item and position of access point of touch foil with aligned document
in table**
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: CARRO F I
**Patent Family** (3 patents, 2 countries)

| Patent Number | Kind | Date | Application Number | Kind | Date | Update | |
|---|---|---|---|---|---|---|---|
| US 20020101447 | A1 | 20020801 | US 2001923150 | A | 20010806 | 200282 | B |
| TW 494323 | A | 20020711 | TW 2000127096 | A | 20001218 | 200328 | E |
| US 7027038 | B2 | 20060411 | US 2001923150 | A | 20010806 | 200626 | E |

Priority Applications (no., kind, date): EP 2000480079 A 20000829; US
 2001923150 A 20010806

**Patent Details**

| Number | Kind | Lan | Pg | Dwg | Filing Notes |
|---|---|---|---|---|---|
| US 20020101447 | A1 | EN | 36 | 21 | |
| TW 494323 | A | ZH | | | |

**Original Titles:**
System and method for locating on a **physical document** items
referenced
in another **physical document**...

 **Alerting Abstract** ...NOVELTY - An identification (ID) data of a **physical**

**document** page and hyperlinked item defined on the page, are stored in a hyperlink table. An...

...absolute coordinates of associated point is stored. The position of access point pressed on an **opto - touch** foil aligned with the document is determined and stored.

## Original Publication Data by Authority

### Argentina

Assignee name & address:
**Original Abstracts:**
...interactive hypermedia systems and more particularly to a method and system for locating on a **physical document** items referenced **in another physical document**. The present **invention discloses** a method and system for creating hyperlinks from items (e.g. words, pictures, foot notes, symbols, icons) on a first **physical document** to particular **points on** a second **physical document** (manuscript or **printed document** ), for activating these hyperlinks simply by touching the first document, and for highlighting by means...

...interactive hypermedia systems and more particularly to a method and system for locating on a **physical document** items referenced in another **physical document**. The present **invention** discloses a method and **system for** creating hyperlinks from items (e.g. words, pictures, foot notes, symbols, icons) on a first **physical document** to particular points on a second **physical document** ( **manuscript** or printed document), for activating these **hyperlinks simply** by touching the first document, and for highlighting by means of a light emitting source...

**Claims:**
...use on a user system, of creating hyperlinks from hyperlinked items referenced in a first **physical document** to particular **points on** a second **physical document** , said method **comprising the** steps of: creating a hyperlink table for the first **physical document** ; storing in said hyperlink **table an** identification of the first **physical document** ; storing in said hyperlink table an **identification of** a page of the first **physical** document and an identification of a hyperlinked item defined **on said** page; associating with the hyperlinked item a point on a page of a second **physical document** ; storing in said hyperlink table absolute coordinates of the associated **point** ; **determining** position of a point pressed on a first **opto - touch** foil, the first **opto - touch** foil being aligned with the first **physical document** , said **point corresponding** to position of **the hyperlinked** item; and storing in the hyperlink **table** , **position** of the point pressed, said hyperlink table comprising for the hyperlinked item, an indication of its position on the page of the first **physical document** .

...use on a user system, of creating hyperlinks from hyperlinked items referenced in a first **physical document** to particular points on a second **physical document**, said method comprising the steps of: creating
a hyperlink table for the first **physical document**; storing in said hyperlink **table an** identification of the first **physical document**; **storing in** said hyperlink table an identification of a page of the first **physical document** and an **identification of** a hyperlinked item defined on said page; associating with the hyperlinked item **a point** on a page of a second **physical document**; storing in said hyperlink table absolute coordinates **of the** associated point; determining a position of a point pressed on a first **opto-touch** foil, the first **opto-touch** foil being aligned with the first **physical document**, **said** point corresponding to a position of the hyperlinked item on the page of the first **physical document**; and storing in the hyperlink table, the position **of the** point pressed, said **hyperlink table** comprising for the hyperlinked item, an **indication of** the position of the hyperlinked item on the page of the first **physical document** in terms **of foil** coordinates with respect to the first **opto-touch** foil.

KAMAL (instant inventor)
**13/3,K/5    (Item 5 from file: 350)**
DIALOG(R) File 350: Derwent WPIX
(c) 2008 Thomson Reuters. All rts. reserv.

0012847322 - Drawing available
WPI ACC NO: 2002-705835/200276
XRPX Acc No: N2002-556422
**Interactive multimedia information accessing method involves detecting**
**position of hyperlinked items in selected page of document by using associated table and transmitting to** opto-touch **foil connected to user**
**computer**
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: CARRO F I
**Patent Family** (2 patents, 1 countries)

| Patent | | | Application | | | |
|---|---|---|---|---|---|---|
| Number | Kind | Date | Number | Kind | Date | Update |
| US 20020087598 | A1 | 20020704 | US 2001841930 | A | 20010425 | 200276 B |
| US 6771283 | B2 | 20040803 | US 2001841930 | A | 20010425 | 200451 E |

Priority Applications (no., kind, date): EP 2000480037 A 20000426; US 2001841930 A 20010425

**Patent Details**

Number      Kind Lan   Pg  Dwg  Filing Notes
US 20020087598  A1 EN   30   16
**...of hyperlinked items in selected page of document by using associated**
**table and transmitting to** opto - touch **foil connected to user computer**

**Original Titles:**
Method and system for accessing interactive multimedia information or services by touching highlighted items on **physical  documents**
...

...Method and system for accessing interactive multimedia information or services by touching highlighted items on **physical  documents**

  **Alerting Abstract** ...hyperlinked table of the document. The determined position of hyperlinked items are transmitted to an **opto - touch** foil connected to an user system and arranged on the document, for illuminating items....multimedia information of service such as shopping information by touching hyperlinked items on hardcopy document, **magazine** , **book** , **catalog** , geographical map, photograph and painting.


**Original Publication Data by Authority**

**Argentina**

Assignee name & address:
**Original Abstracts:**
...that are electronically illuminated over the surface of a hard-copy document or any other **physical** surface. The system includes: an **opto - touch** foil, placed **over** ( **or** under) a portion of the document, used to highlight hyperlinked items over the surface of the **physical  document** and to **read  coordinates** of these hyperlinked items; and a user workstation for accessing the information/service associated with...

...surface of a hard-copy document or any other physical surface. The system includes: an **opto - touch** foil, placed over (or under) a portion **of  the** document, used to highlight hyperlinked items over the surface of the **physical  document** and to read coordinates of these hyperlinked **items** ;  **and** a user workstation for accessing the information/service associated with the hyperlinked items. Hyperlinked items...
**Claims:**
...A method comprising:selecting and accessing information or services by touching hyperlinked items on a **physical  document** , said method for use in a user system includes **the  steps** of:identifying a **physical document** , said **physical  document** comprising at least one page;identifying a page **of  said  physical  document** , **said** page

comprising one or a plurality of predefined hyperlinked items; identifying position **of hyperlinked** items comprised in said identified page referring to a hyperlink table associated with said identified...

...item, an indication of its position on said page; andsending for visualization on an **opto - touch** foil, the position of said hyperlinked items, said **opto - touch** foil being connected to the user system.

...

...What is claimed is: 13. A system comprising: an **opto - touch** foil to be aligned with a page of a **physical document** ; a user workstation comprising a computer system having a hyperlink table and having software adapted for carrying out the method comprising **the steps** of: identifying a **physical document** , said **physical document** comprising **at least** one page; identifying a page of said **physical document** , said page comprising one or a plurality of predefined hyperlinked items; identifying position of hyperlinked items comprised in said identified page **referring to a hyperlink table** associated with said identified document, said hyperlink table comprising for each page **of the** document, a list of hyperlink items, and for each hyperlink item, an indication of its position on said page; andsending for visualization on an **opto - touch** foil, the position of said hyperlinked items, said **opto - touch** foil being connected to the user system; anda connection between said **opto - touch** foil and said user workstation.

KAMAL (instant inventor)
**13 / 3, K/ 6    (Item 6 from file: 350)**
DIALOG(R) File 350: Derwent WPIX
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0012461152 - Drawing available
WPI ACC NO: 2002-407220/200244
XRPX Acc No: N2002-319792
**Electronic document hyperlink creation method for interactive multimedia**
**system, involves defining hyperlink in** physical document **and encoding**
**absolute coordinates in defined hyperlink**
Patent Assignee: IBM CORP (IBMC); INT BUSINESS MACHINES CORP (IBMC)
Inventor: CARRO F I
**Patent Family** (6 patents, 30 countries)

| Patent | | | Application | | | |
|---|---|---|---|---|---|---|
| Number | Kind | Date | Number | Kind | Date | Update |
| EP 1186986 | A2 | 20020313 | EP 2001480031 | A | 20010510 | 200244 B |
| US 20020047870 | A1 | 20020425 | US 2001892399 | A | 20010626 | 200244 |

E
JP 2002169743   A  20020614  JP 2001255548   A 20010827 200254 E
KR 2002017970   A  20020307  KR 200149301    A 20010816 200261 E
TW 528967       A  20030421  TW 2000127097   A 20001218 200373 E
JP 3722424      B2 20051130  JP 2001255548   A 20010827 200582 E

Priority Applications (no., kind, date): EP 2000480080 A 20000829

**Patent Details**
Number        Kind Lan  Pg  Dwg  Filing Notes
EP 1186986     A2  EN   27  10
Regional Designated States,Original:  AL AT BE CH CY DE DK ES FI FR GB GR
  IE IT LI LT LU LV MC MK NL PT RO SE SI TR
JP 2002169743   A   JA   19
TW 528967       A   ZH
JP 3722424      B2  JA   21      Previously issued patent  JP 2002169743


**Electronic document hyperlink creation method for interactive multimedia**
**system, involves defining hyperlink in** physical  document **and encoding**
**absolu**te coordinates in defined hyperlink

**Original Titles:**
...System and method for locating on a **physical  document** items
referenced in an electronic document...

...SYSTEM AND METHOD FOR SHOWING ITEM REFERRED TO IN ELECTRONIC
DOCUMENT ON
 **PHYSICAL  DOCUMENT**...

...System and method for locating on a **physical  document** items
referenced in an electronic document

  **Alerting Abstract** ...for each item referenced in an electronic document
and a hyperlink is defined in a **physical  document** (506). The
determined
absolute coordinates are encoded in the defined hyperlink....user system;
Hyperlink creation computer program; Electronic document; Referenced item
location method; User system and **opto - touch** foil communication
system...

...ADVANTAGE - The **physical  document** information related to items
selected in an electronic document can be highlighted **effectively  by**
accessing multimedia information or services in the user workstation...

...506 **Physical  document**

**Original Publication Data by Authority**

**Argentina**

Assignee name & address:
**Original Abstracts:**
...method of creating in an electronic document one or a plurality of
hyperlinks to a **physical document** for locating **on said physical
document** one or **a plurality** of items referenced in this electronic
document, from an user system connected to an **opto - touch** foil placed
**on or** under the **physical document** . The method **comprises the**
steps of:defining referenced items in the electronic document; for each
item referenced in the electronic document;determining absolute
coordinates;defining an hyperlink to the **physical document** ;encoding the
absolute coordinates in the hyperlink.The **present invention** further
discloses an electronic document comprising one or a plurality of
referenced items, each referenced item comprising an hyperlink to a
**physical document** , each hyperlink comprising encoded absolute
coordinates of the corresponding referenced item, this hyperlink being used
for locating **the item** on said **physical document** from an user system
connected to an **opto - touch** foil placed on or under this **physical
document** . The **present** invention further discloses a system and method
**of locating** on a **physical document** one or **a plurality** of items
referenced in an electronic document comprising hyperlinks to this
**physical document** . The method for use in **a user** system connected
to
an **opto - touch** foil placed on or under said **physical document** ,
comprising **the steps** of:identifying the one or plurality of items
referenced in this **electronic document** ;identifying the **physical
document** ;for each **referenced item** that has been identified:computing
from the absolute coordinates, foil coordinates corresponding to the
position of the item on the **physical document** .

...A system and method of creating in an electronic document a hyperlink to
a **physical document** for locating on the **physical document** an item
referenced in the electronic document. A user system is connected to an
illuminating **opto - touch** foil placed on or under the **physical
document.** >
**Claims:**
...method of creating in an electronic document one or a plurality of
hyperlinks to a **physical document** ( **506** ) **for** locating, on said
**physical document** , **one or** a plurality of items referenced in said
electronic document from an user system (500) connected to an **opto -
touch**
 **foil** ( **507** ) placed on or under said **physical document** ( **506** ),
**said** method comprising the steps of:defining referenced items in the
electronic document;for each item referenced in the electronic

document;determining absolute coordinates;defining an hyperlink to the **physical document** ;encoding said absolute coordinates in said hyperlink.

...claimed is:<b>1</b>. A method of creating a hyperlink from an electronic document to a **physical document** for locating, on the **physical document** , an item referenced in the electronic document, comprising the steps of:defining a referenced item in an **electronic document** ;determining absolute coordinates of **the referenced** item;defining a hyperlink to the **physical document** ; andencoding the absolute coordinates in the hyperlink.

~ ~ Full text patent files

13/3,K/1    (Item 1 from file:348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01606090
SYSTEM AND METHOD FOR SELECTING ELECTRONIC DOCUMENTS
FROM A PHYSICAL DOCUMENT AND FOR DISPLAYING SAID
ELECTRONIC DOCUMENTS OVER SAID PHYSICAL DOCUMENT
SYSTEM UND VERFAHREN ZUM AUSWAHLEN EINES ELEKTRONISCHEN
DOKUMENTS AUS EINEM PHYSIKALISCHEN  DOKUMENT  UND  ZUM
ANZEIGEN  DIESES ELEKTRONISCHEN
    DOKUMENTS UBER DIESES PHYSIKALISCHE DOKUMENT
SYSTEME ET PROCEDE DESTINES A SELECTIONNER DES
DOCUMENTS ELECTRONIQUES A PARTIR D'UN DOCUMENT PHYSIQUE ET
A AFFICHER CES DOCUMENTS ELECTRONIQUES **SUR CE DOCUMENT
PHYSIQUE**
PATENT ASSIGNEE:
  International Business Machines Corporation, (828995), New Orchard Road,
    Armonk, NY 10504, (US), (Proprietor designated states: all)
INVENTOR:
  INCERTIS CARRO, Fernando, c/612 - No 9, Monte-Canada, Paterna,46182
    Valencia, (ES)
LEGAL REPRESENTATIVE:
  Etorre, Yves Nicolas (87833), Compagnie IBM-France, Direction de la
    Propriete Intellectuelle, 06610 La Gaude, (FR)
PATENT (CC, No, Kind, Date):  EP 1444608 A2 040811 (Basic)
                   EP 1444608 A2 040811
                   EP 1444608 B1 081210
                   WO 2003042862 030522
APPLICATION (CC, No, Date):   EP 2002779460 020912;  WO 2002EP11126
020912
PRIORITY (CC, No, Date): EP 2001480109 011113
DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR;
GB; GR;

...SPECIFICATION Method and system for accessing interactive multimedia information or services by touching highlighted items on **physical documents** " discloses a system and method for selecting and accessing multimedia information and/or services located...

...surface of a hard-copy document (or any other physical surface) by means of an **opto - touch** foil. The referenced system includes:
 an **opto - touch** foil preferably transparent, placed by the user over (or under) the document (or a portion of said document). This **opto - touch** foil is used :
 to illuminate and highlight hyperlinked items over the surface of the **physical document** (or portion of this document), and
 to read coordinates of these hyperlinked items,
 an user...

...process is detrimental for the best user's comfort, rest, and attention.

  Using the same **opto - touch** foil, < PATCIT ID= PCIT0002 DNUM= US09892399B> US patent application 09/892399 </PATCIT> (IBM's reference FR9-2000-0027), entitled "System and method for locating on a **physical document** items referenced in a electronic document", discloses a method and system for using the same **opto - touch** foil for locating on a **physical document** items referenced in an electronic document. In a preferred embodiment, this invention enables to highlight...

**< removed unnecessary information>**

01403493
**System and method for locating on a physical document items referenced in**
   **an electronic document**
**System und Verfahren zum Orten, von sich auf ein elektronisches Dokument**
   **beziehenden Punkten, auf einem physikalischen Dokument**
**Systeme et methode pour localiser, sur un document physique, des points**
   **references dans un document electronique**
PATENT ASSIGNEE:
 International Business Machines Corporation, (200123), Armonk, NY 10504,
   (US), (Applicant designated States: all)
INVENTOR:
 Incertis Carro, Fernando, c/612, no. 9, Monte-Canada, Paterna, 46182
   Valencia, (ES)
LEGAL REPRESENTATIVE:
 Etorre, Yves Nicolas (87831), Compagnie IBM France, Departement
   Propriete Intellectuelle, 06610 La Gaude, (FR)
PATENT (CC, No, Kind, Date): EP 1186986 A2 020313 (Basic)
                 EP 1186986 A3 051116
APPLICATION (CC, No, Date):   EP 2001480031 010510;
PRIORITY (CC, No, Date): EP 2000480080 000829
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT;
LI;
 LU; MC; NL; PT; SE; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS (V7): G06F-017/30; G06F-003/033; G09B-
029/10;
 G06F-003/00
ABSTRACT WORD COUNT: 267
NOTE:
 Figure number on first page: 5

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text  Language  Update   Word Count
    CLAIMS A  (English) 200211    1302
    SPEC A   (English) 200211   6972
Total word count - document A      8274
Total word count - document B         0

Total word count - documents A + B   8274

...ABSTRACT method of creating in an electronic document one or a plurality of hyperlinks to a **physical   document** for locating on said **physical   document**  one or a plurality of items referenced in this electronic document, from an user system connected to an **opto - touch**  foil placed on or under the **physical   document** . The method comprises the steps of:

  * defining referenced items in the electronic document; for each item referenced in the electronic document;
  * determining absolute coordinates;
  * defining an hyperlink to the **physical   document** ;
  * encoding the absolute coordinates in the hyperlink.
    The present invention further discloses an electronic document...

**< removed unnecessary information>**


 **13 / 3 ,K/ 3    (I tem 3 from file: 349)**
DI ALOG(R)File 349:PCT FULLTEXT
(c) 2008 WIPO/Thomson. All rts. reserv.

01110987   * * I mage available* *
**SYSTEM AND METHOD FOR SELECTI NG, ORDERING AND ACCESSI NG COPYRI GHTED
   I NFORMATI ON FROM PHYSI CAL DOCUMENTS**
**SYSTEME ET PROCEDE DE SELECTI ON, DE COMMANDE ET D'ACCES A UNE I NFORMATI ON PROTEGEE PAR LES DROI TS D'AUTEUR A PARTI R DE DOCUMENTS PHYSI QUES**
Patent Applicant/Assignee:
  I NTERNATI ONAL BUSINESS MACHINES CORPORATI ON, New Orchard Road, Armond, NY
    10504, US, US (Residence), US (Nationality), (For all designated states
    except: US)
  I BM FRANCE, Tour Descartes, La Defense, 5, 2, avenue Gambetta, F-92400
    Courbevoie, FR, FR (Residence), FR (Nationality), (Designated only for: MC)
Patent Applicant/I nventor:
  INCERTIS CARRO Fernando, c/612 - N(deg) 9, Monte-Canada, Paterna, E-46182
    Valencia, ES, ES (Residence), ES (Nationality), (Designated only for: US)
  VARONA BARBERO Jose Maria, Avda. Burgos, 28, 5(deg)A, E-28036 Madrid, ES,
    ES (Residence), ES (Nationality), (Designated only for: US)
Legal Representative:
  ETORRE Yves Nicolas (agent), Compagnie I BM France, Direction de la
    Propriete I ntellectuelle, F-06610 La Gaude, FR,

Patent and Priority Information (Country, Number, Date):
  Patent:            WO 200434280 A1 20040422 (WO 0434280)
  Application:       WO 2003EP9309 20030723 (PCT/WO EP03009309)
  Priority Application: EP 2002368109 20021010
Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)
  AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
  EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
  LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD
  SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
  (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE
  SI SK TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 6622

Fulltext Availability:
  Detailed Description

English Abstract
  ...present invention discloses a system, method and computer program for
  selecting, ordering, accessing and displaying **copyrighted** information
  from **physical documents** such as printed publications or **commercials**
  . The invention allows the management and the direct sale from the editor
  to the final consumer of electronic information referenced on physical
  publications while respecting the **copyrights** attached to this
  electronic information. According to the present invention, a plurality
  of particular items (i.e., words, pictures, logos, etc.,) are defined on
  a **physical document** . These items are linked to **copyrighted** hardcopy
  or softcopy edited objets, such as chapters, notes, pictures, video or
  audio elements. For identifying and selecting the items defined in the
  **physical document** , these items are automatically illuminated by
  luminous signals (or light spots) generated by an **opto - touch** foil.
  The **opto - touch** foil operates under the control of a user workstation.
  An illuminated item is selected by the user by pressing the **opto - touch**
  foil over the illuminated position of this item. When the user selects a
  particular item among all illuminated items, the user workstation
  receives from the **opto - touch** foil a signal indicating the position of

this selected item. The user workstation identifies and...
...the user workstation, then this edited object is accessed locally. If
the user has no **copyright** for the edited object, a request is sent
through a network to an Edited Objects...

Detailed Description
... present invention discloses a system, method and computer program for
selecting, ordering, accessing and displaying **copyrighted** information
from **physical documents** such as printed publications or
**commercials**
. The invention allows the management and the direct sale from the editor
to the final consumer of electronic information referenced on physical
publications while respecting the **copyrights** attached to this
electronic information. According to the present invention, a plurality
of particular items (i.e., words, pictures, logos, etc.,) are defined on
a **physical document** . These items are linked to **copyrighted**
hardcopy
or softcopy edited objets, such as chapters, notes, pictures, video or
audio elements. For identifying and selecting the items defined in the
**physical document** , these items are automatically illuminated by
luminous signals (or light spots) generated by an **opto - touch** foil.
The **opto - touch** foil operates under the control of a user workstation.
An illuminated item More particularly, the...

**< removed unnecessary information>**


~ ~ **Bibliographic NPL files**

 **1 / 3,K/ 1     (Item 1 from file: 99)**
DIALOG(R)File  99:Wilson Appl. Sci & Tech Abs
(c) 2008 The HW Wilson Co. All rts. reserv.

1676546 H.W. WILSON RECORD NUMBER: BAST97012710
**Two-hand, anti-tiedown controls are safe and ergonomic**
AUGMENTED TITLE: Duo-Touch from Banner Engineering Corp.
Schneider, Richard T;
Hydraulics & Pneumatics v. 50 (Jan. '97) p. 14+
DOCUMENT TYPE:  Product Evaluation ISSN:  0018-814X

...ABSTRACT:  the hazardous area of a machine while it cycles.  The
company
has also developed optoelectric **Opto - Touch**  switches, which are closed
by breaking a light beam.  This helps to eliminate repetitive stress...


~ ~ **Full text NPL files**

09386950    Supplier Number: 82263707  (USE FORMAT 7 FOR FULLTEXT)
**Injection molding machines. (Equipment).(Brief Article)**
Rubber World, v225, n3, p66(1)
Dec, 2001
Language:  English    Record Type:  Fulltext
Article Type: Brief Article
Document Type: Magazine/Journal; Trade
Word Count:   221

 (USE FORMAT 7 FOR FULLTEXT)

ABSTRACT:
TEXT:
...will then repeat when the operator starts the cycle with the
anti-tie-down "opto  **touch** " buttons. Components include an Allen Bradley
mini PLC, solid-state temperature controller and digital timers...